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Amendment Under 37 CFR §1.116 Amendment C

LISTING OF CLAIMS:

1-62. (Cancelled)

- 63. (Previously presented) A light communication device comprising:
- a detecting means for detecting an internal state of a living body and for generating a signal representing the detected state;
- a transmitting means for transmitting light whose polarization state is modulated on the basis of the signal;
- a receiving means for receiving and demodulating the light to extract the signal included in the light; and
 - a controlling means for receiving the extracted signal.
- 64. (Previously presented) A light communication device comprising:
 - a controlling means for generating a control signal;
- a transmitting means for transmitting light whose polarization state is modulated on the basis of the control signal;
- a receiving means for receiving and demodulating the light to extract the control signal included in the light; and
- a physiological function assisting means for assisting a function of a living body on the basis of the control signal.
- 65. (Previously presented) The light communication device of Claim 63, wherein the transmitting means comprises a planar emission laser.
- 66. (Previously presented) The light communication device of Claim 64, wherein the transmitting means comprises a planar emission laser.
- 67. (Previously presented) The light communication device of Claim 63, wherein the transmitting means comprises:
- a light source comprising a plurality of planar emission laser diodes formed on a semiconductor substrate, each of which having a different direction of polarization; and

driving means for driving selectively the plurality of planar emission lasers.



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- 68. (Previously presented) The light communication device of Claim 64, wherein the transmitting means comprises:
- a light source comprising a plurality of planar emission laser diodes formed on a semiconductor substrate, each of which having a different direction of polarization; and

driving means for driving selectively the plurality of planar emission lasers

- 69. (Previously presented) The light communication device of Claim 63, further comprising a display unit that displays information regarding a living body on the basis of the extracted signal.
- 70. (Previously presented) The light communication device of Claim 63, further comprising a holding means for holding the detecting means in a position to detect light transmitted by the transmitting means.
- 71. (Previously presented) A light communication system for performing communication between a physiological function assisting device and a controlling device, the system comprising:

in the physiological function assisting device,

means for detecting an internal state of a living body and generating a data signal representing the detected state;

- a first transmitting means for transmitting light whose polarization state is modulated on the basis of the detected data signal;
- a first receiving means for receiving and demodulating light transmitted by said controlling means to extract a control signal included in the light;

in the controlling device,

means for generating the control signal;

a second transmitting means for transmitting light whose polarization state is modulated on the basis of the control signal; and a receiving means for receiving and demodulating light transmitted by said physiological function assisting device, to extract the data signal included in the light.



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- 72. (Cancelled)
- 73. (Cancelled)
- 74. (Previously presented) The light communication system of Claim 71, wherein at least one of the first transmitting means and the second transmitting means comprises a planar emission laser.
- 75. (Previously presented) The light communication system of Claim 71, wherein at least one of the first transmitting means and the second transmitting means comprises:

a light source comprising a plurality of planar emission laser diodes formed on a semiconductor substrate, each of which having a different direction of polarization; and

driving means for driving selectively the plurality of planar emission lasers.

- 76. (Previously presented) The light communication system of Claim 71, further comprising a display unit that displays information regarding a living body on the basis of the extracted control signal.
- 77. (Previously presented) The light communication system of Claim 71, further comprising a holding means for holding the controlling device in a position so that the second detecting means can detect light transmitted by the transmitting means.
- 78. (New) A light communication system for performing communication between a physiological function assisting device and a controlling device, the system comprising:

in the physiological function assisting device,

means for detecting an internal state of a living body and generating a data signal representing the detected state;

a first transmitting means for transmitting light whose intensity is modulated on the basis of the detected data signal;

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a first receiving means for receiving and demodulating light transmitted by said controlling means to extract a control signal included in the light;

in the controlling device.

means for generating the control signal:

- a second transmitting means for transmitting light whose polarization state is modulated on the basis of the control signal; and a receiving means for receiving and demodulating light transmitted by said physiological function assisting device, to extract the data signal included in the light.
- 79. (New) A light communication system for performing communication between a physiological function assisting device and a controlling device, the system comprising:

in the physiological function assisting device.

means for detecting an internal state of a living body and generating a data signal representing the detected state;

- a first transmitting means for transmitting light whose polarization state is modulated on the basis of the detected data signal:
- a first receiving means for receiving and demodulating light transmitted by said controlling means to extract a control signal included in the light;

in the controlling device,

means for generating the control signal;

a second transmitting means for transmitting light whose intensity is modulated on the basis of the control signal; and a receiving means for receiving and demodulating light transmitted by said physiological function assisting device, to extract the data signal included in the light.